Lab ID : CP-RW-2017-04-20-03 **Date: 22-04-17**

Sample ID No : 2017-04-20-03/02

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	10	10	2.09	97.9	90-100
19	22	32	6.69	93.3	71-95
13.2	103	135	28.24	71.8	56-80
4.75	143	278	58.16	41.8	38-54
2.36	42	320	66.95	33.1	28-42
0.3	88	408	85.36	14.6	7-21
0.075	58	466	97.49	2.5	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 475

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	8	8	1.68	98.3	90-100
19	67	75	15.79	84.2	71-95
13.2	112	187	39.37	60.6	56-80
4.75	85	272	57.26	42.7	38-54
2.36	56	328	69.05	30.9	28-42
0.3	82	410	86.32	13.7	7-21
0.075	41	451	94.95	5.1	2-8

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-04-20-03** **Date: 22-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	20-04-17
Sample ID No	:	2017-04-20-03/01
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	20-04-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	475	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.00	4.60
4	Average percentage	%	4.8	

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Lab ID

Sample ID No : CP-RW-2017-04-20-03 **Date: 22-04-17**

: 2017-04-20-03/01

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 475

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	2	2	0.42	99.6	90-100
19	55	57	12.00	88.0	71-95
13.2	87	144	30.32	69.7	56-80
4.75	122	266	56.00	44.0	38-54
2.36	63	329	69.26	30.7	28-42
0.3	102	431	90.74	9.3	7-21
0.075	31	462	97.26	2.7	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	5	5	1.05	99.0	90-100
19	72	77	16.14	83.9	71-95
13.2	122	199	41.72	58.3	56-80
4.75	85	284	59.54	40.5	38-54
2.36	73	357	74.84	25.2	28-42
0.3	55	412	86.37	13.6	7-21
0.075	51	463	97.06	2.9	2-8

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TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID : **CP-RW-2017-04-17-03** **Date: 22-04-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Project Name : Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Customer Reference : BBMP/EE(YNK.D)/W.O/143/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-04-17

Sample ID No : 2017-04-17-03/01

Type of Mix : Coarse Aggregate for BC (Bituminous Concrete)

Date of test : 18-04-17

SLNo	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	304.3	303.9
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	67.3	66.9
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	236.2	236.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.8	0.2
5	Aggregate impct value	(B/A)*100	22.12	22.01
6	Aggregate impct value (Mean of two tests)		22.07	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS:2386 Part 1)

Lab ID : **CP-RW-2017-04-17-03** **Date: 22-04-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Project Name : Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Customer Reference : BBMP/EE(YNK.D)/W.O/143/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-04-17

Sample ID No : 2017-04-17-03/01

Type of Mix : Coarse Aggregate for BC (Bituminous Concrete)

Date of test : 18-04-17

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 500-16
Flakiness Index	10.6%	Combined Flakiness & Elongation Index for BC is Maximum 35%
Elongation Index	11.6%	
Combined Flakiness and Elongation Index for BC	22.2%	

Note:

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SPECIFIC GRAVITY AND WATER ABSORPTION TEST
(IS:2386 Part III)

Lab ID : **CP-RW-2017-04-17-03** **Date: 22-04-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Project Name : Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Customer Reference : BBMP/EE(YNK.D)/W.O/143/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-04-17

Sample ID No : 2017-04-17-03/01

Type of Mix : Coarse Aggregate for BC (Bituminous Concrete)

Date of test : 18-04-17

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2275	2175	
2	Weight of Empty Basket suspended in water	A2	grams	791	728	
3	Weight of Aggregates in water	A=A1-A2	grams	1484	1447	
4	Weight of Saturated Surface Dry aggregate	B	grams	2436	2337	
5	Weight of oven dried aggregate	C	grams	2430	2330	
6	Specific gravity	C/(B-A)		2.55	2.62	2.59
7	Apparent Specific gravity	C/(C-A)		2.57	2.64	2.60
8	Water absorption	100*(B-C) /C	Percent	0.25	0.30	0.27

Note:-
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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-04-17-03** **Date: 22-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-17
Sample ID No	:	2017-04-17-03/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	17-03-17

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	10.98	11.21	10KN(min)
2	Marshal flow at 60°C, mm	2.87	3.19	2-4
3	Percent air Voids	3.79	4.65	3-5
4	Percent Voids in mineral Aggregate(VMA %)	13.99	13.55	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.47	67.82	65-75
6	Density, g/cc	2.36	2.33	–

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2017-04-17-03
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-17
Sample ID No	:	2017-04-17-03/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	17-04-17

Date: 22-04-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	96.5	3.5	97.2	Minimum Retained Coating 95%
2	98.0	2.0		
3	97.0	3.0		

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Certificate No.: T- 4358

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-17-03** **Date: 22-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-17
Sample ID No	:	2017-04-17-03/01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	17-04-17
Oven Dry Weight(gm)	:	5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	75	75	1.5	98.5	90-100
9.5	986	1061	21.2	78.8	70-88
4.75	1152	2213	44.3	55.7	53-71
2.36	263	2476	49.5	50.5	42-58
1.18	439	2915	58.3	41.7	34-48
0.6	582	3497	69.9	30.1	26-38
0.3	501	3998	80.0	20.0	18-28
0.15	215	4213	84.3	15.7	12-20
0.075	322	4535	90.7	9.3	4-10
PAN	465	5000	100	0.0	0

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Page 1/1
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2017-04-24-03 **Date: 26-04-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Project Name : Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Customer Reference : BBMP/EE(YNK.D)/W.O/143/2017-18

Source of Sample : Sample supplied by Agency

Date of Receipt : 24-04-17

Sample ID No : 2017-04-24-01/02

Type of Mix : BC (Bituminous Concrete)

Date of test : 24-04-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	505	503
2	Weight of the sample After extraction	B	475	473
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.94	5.96
4	Average percentage	%	6.0	

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Lab ID : CP-RW-2017-04-24-03
Sample ID : 2017-04-24-01/02

Date: 26-04-17

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	90-100
9.5	70	70	14.7	85.3	70-88
4.75	109	179	37.7	62.3	53-71
2.36	59	238	50.1	49.9	42-58
1.18	41	279	58.7	41.3	34-48
0.6	47	326	68.6	31.4	26-38
0.3	60	386	81.3	18.7	18-28
0.15	32	418	88.0	12.0	12-20
0.075	34	452	95.2	4.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	102	107	22.6	77.4	70-88
4.75	84	191	40.4	59.6	53-71
2.36	89	280	59.2	40.8	42-58
1.18	27	307	64.9	35.1	34-48
0.6	18	325	68.7	31.3	26-38
0.3	52	377	79.7	20.3	18-28
0.15	26	403	85.2	14.8	12-20
0.075	42	445	94.1	5.9	4-10

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-04-24-03**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore. **Date: 26-04-17**
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	24-04-17
Sample ID No	:	2017-04-24-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	24-04-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	500
2	Weight of the sample After extraction	B	472	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.98	6.00
4	Average percentage	%	6.0	

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Lab ID : CP-RW-2017-04-24-03
Sample ID : 2017-04-24-01/01
Date: 26-04-17

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	90-100
9.5	68	68	14.4	85.6	70-88
4.75	107	175	37.1	62.9	53-71
2.36	54	229	48.5	51.5	42-58
1.18	38	267	56.6	43.4	34-48
0.6	41	308	65.3	34.7	26-38
0.3	65	373	79.0	21.0	18-28
0.15	39	412	87.3	12.7	12-20
0.075	43	455	96.4	3.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	2	2	0.4	99.6	90-100
9.5	96	98	20.9	79.1	70-88
4.75	89	187	39.8	60.2	53-71
2.36	75	262	55.7	44.3	42-58
1.18	31	293	62.3	37.7	34-48
0.6	11	304	64.7	35.3	26-38
0.3	72	376	80.0	20.0	18-28
0.15	32	408	86.8	13.2	12-20
0.075	32	440	93.6	6.4	4-10

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE W3

Prepared By:
Harshitha

AE-03

End of Report

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